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INFORMATION REPORT

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COUNTRY
HungarySUBJECT
Stereoscopic AA Range Finder DJA-1/85 MM AAA
Regiments, MiskolcDATE DISTRIBUTED
7 May 51NO. OF PAGES
2

NO. OF ENCLS.

SUPPLEMENT TO REPORT # 25X1

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THIS IS UNEVALUATED INFORMATION

This report is the result of a joint collection effort by the Air Force, the Army and CIA and is disseminated in accordance with the provisions of NSC TD #7. 25X1

1.

2. The DJA-1

is an optical stereoscopic AA Range Finder. While the design is Soviet, the instrument has been manufactured in Hungary since 1952. A four man crew operates the instrument. Two men keep the target centered, another adjusts the stereoscopic eyepiece, while the fourth man spins the dials and transmits the information by voice to the fire control computer. The DJA-1 can track a plane within a slant-range of 2,000 meters to 50 thousand meters, and within the heights of 2,000 to 20 thousand meters. The height dial which is calibrated every 25 meters is read directly with the unaided eye. The range dial, however, is equipped with a 25 X (Power) microscope. The calibration of the range dial is as follows:

- a. Range: 2000 - 5000 m - dial calibrated every 5 m.
- b. Range: 5000 - 8000 m - dial calibrated every 10 m.
- c. Range: 8000 - 12000 m - dial calibrated every 20 m.
- d. Range: 12000 - 20000m - dial calibrated every 50 m.
- e. Range: 20000 - 30000 m - dial calibrated every 100 m.
- f. Range: 30000 - 35000 m - dial calibrated every 200 m.
- g. Range: 35000 - 50000 m - dial calibrated every 1000 m.

USAF review
completed.

The tracking telescopes are 7.9 x while the stereoscopic range finder is 24 X. The optical base of the DJA-1 is four meters and the angles of elevation range from +20° to +90°. When set up for operation the tube is 1.20 cm above the ground. The range finder can be dismantled into three sections for moving, and when fully packed the shipping weight, including the boxes and batteries, is 535 kg. The tracking and stereoscopic eyepieces are equipped with a set of

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filters (light green, dark green and purple blue), and have the reticle patterns. At night the reticle patterns can be illuminated.

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3. [redacted] Soviet made DYA-6 stereoscopic range finders [redacted] note: 25X1 identified from picture/ in use around Miskolc; however, [redacted] These Soviet instruments automatically transmit the height and range data to the computers over electric cables.

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4. [redacted] there were two AAA regiments around Miskolc: my own 85mm AAA Regiment PF 3922, and an "Honor AAA Regiment [sic],"

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5. [redacted] regiment was broken down into five 85mm AAA batteries and one 35mm [sic] AA machine gun battery. [redacted] the location of my unit and a few other AAA installations [redacted]

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Five [redacted] batteries were placed around the city of Miskolc and one battery was within the city. Radar information came from a station about 40 kilometers away in Duzshok [redacted] 46 35N-16 57E, [redacted] our ammunition came from a depot in Drotos-Jeto mountain.

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6. [redacted] battery disposition [redacted]

A battery contained 100 men, including the cooks and other service personnel. [redacted] equipped with both Hungarian and Soviet 85mm AA guns, which had a maximum range of about eight kilometers. The Soviet and Hungarian guns could be differentiated, since a Hungarian manufactured piece had a 10mm thick shield and the base of the tube was built up [redacted]

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7. When the battery was firing, the guns were controlled by an officer at the control fire coordination center. Data from the computers was fed by cable to the coordination center, and from there went to the guns where the electrical information operated dial drums on the guns showing the correct elevation and azimuth. The gun crew attempted to coincide the gun's position at all times with the calculated position shown on the dial drums. The guns could fire a round every five seconds.
8. Approximately 800 boxes of ammunition (three round per box) were stored in the battery's own ammunition dump. In addition, 12 boxes were maintained by every gun position.

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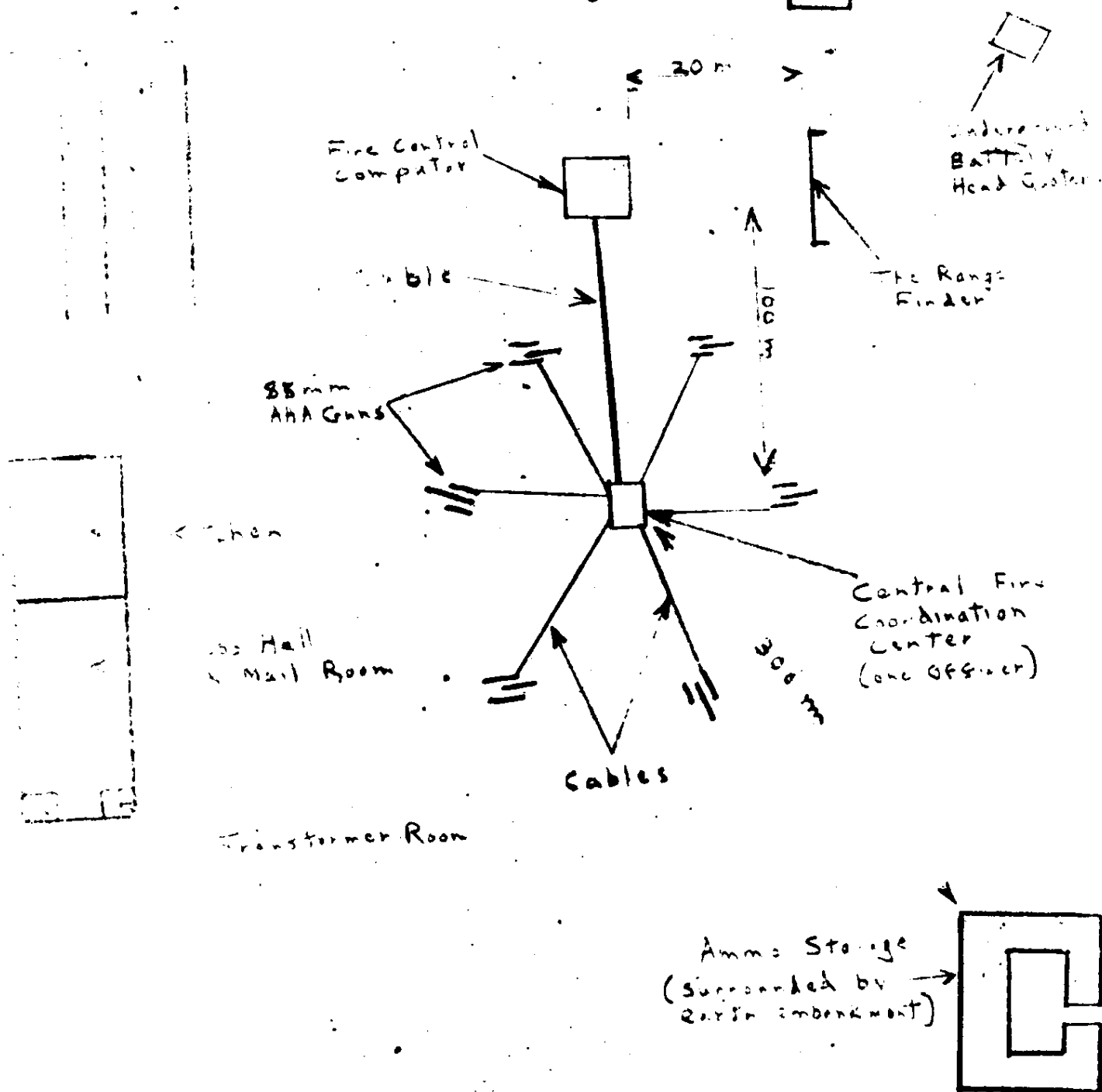
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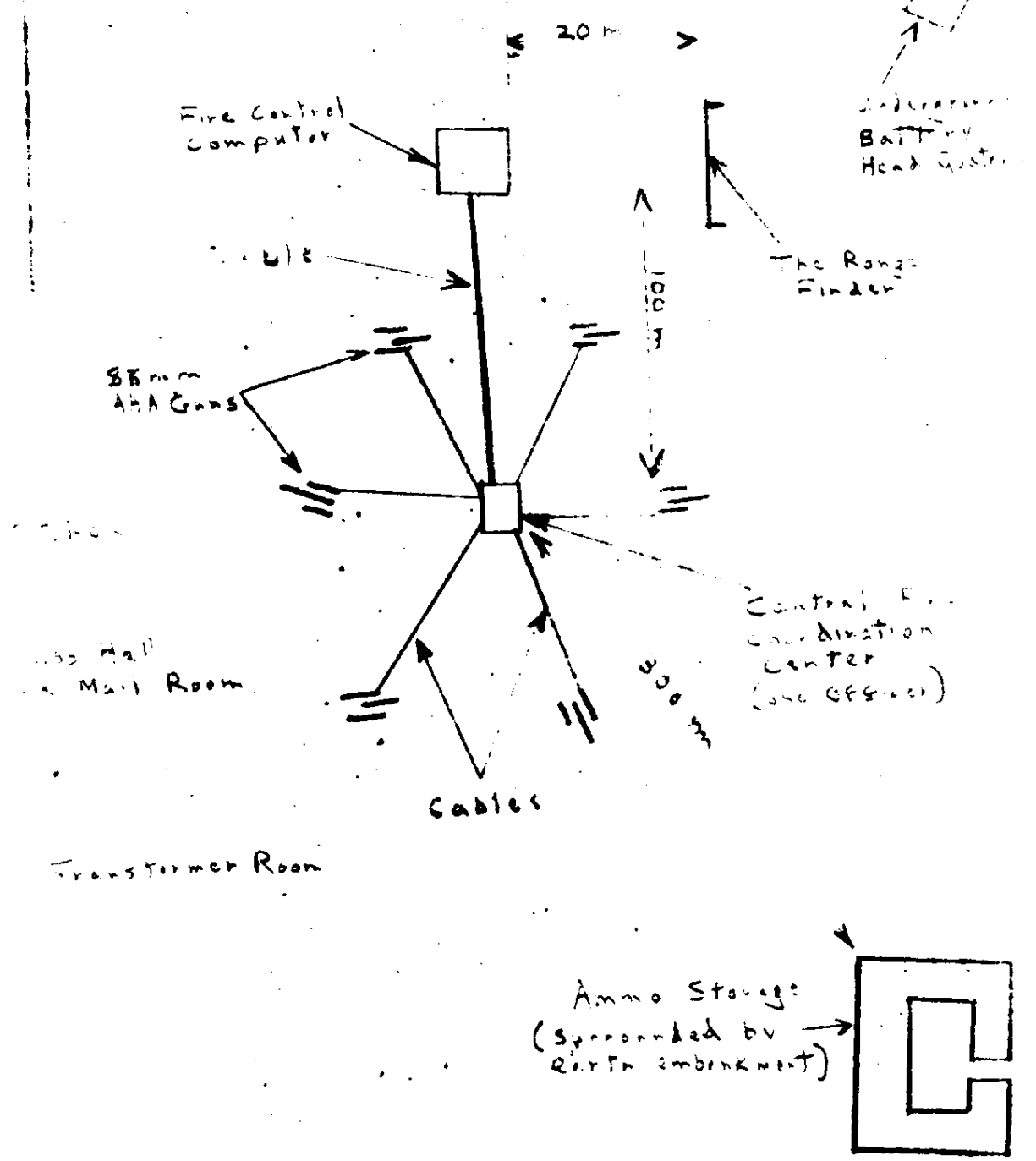
Setup of an 85 mm AAA Battery
Miskola, AAA Regiment



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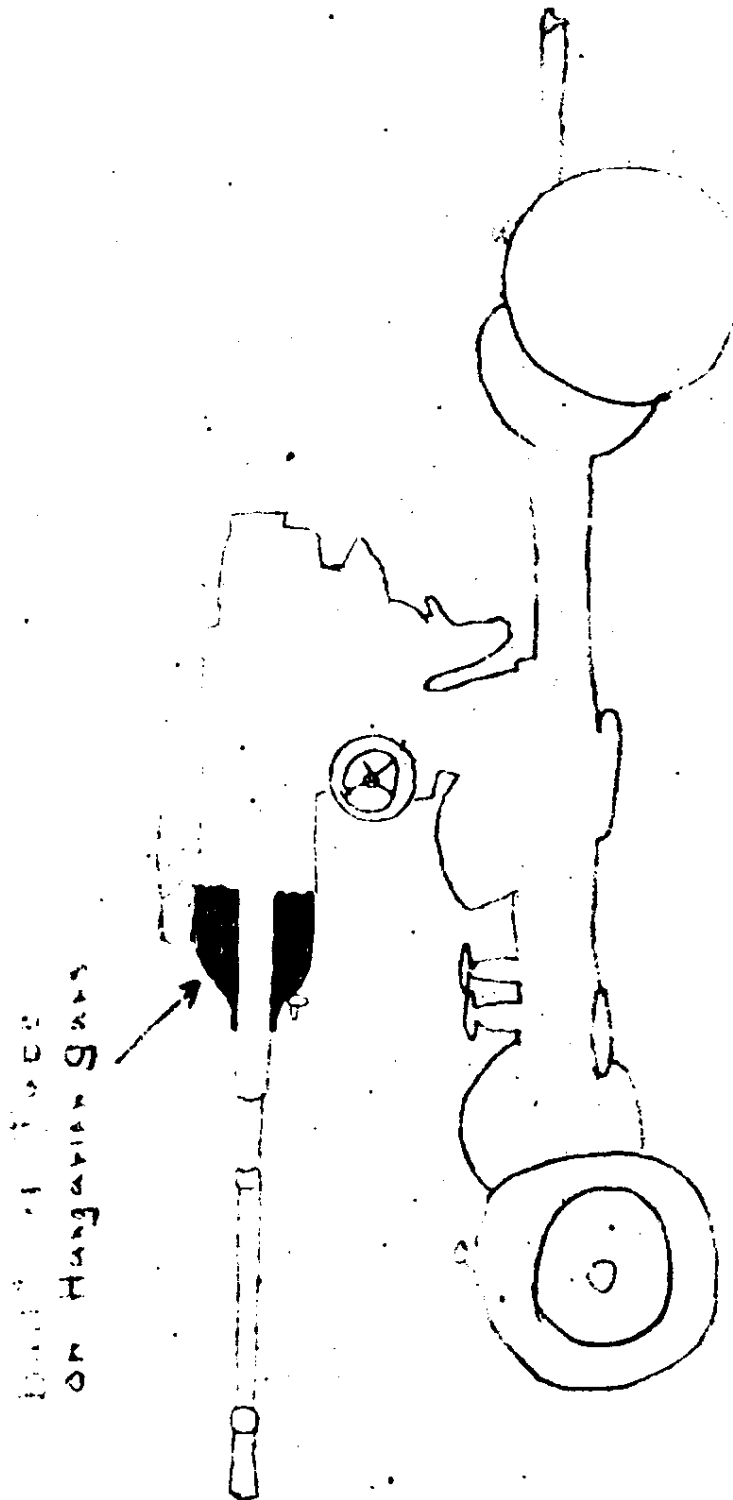
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Setup of an 85mm AAA Battery
Miskolc, AAA Regiment

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85-mm ANTI-AIRCRAFT GUN

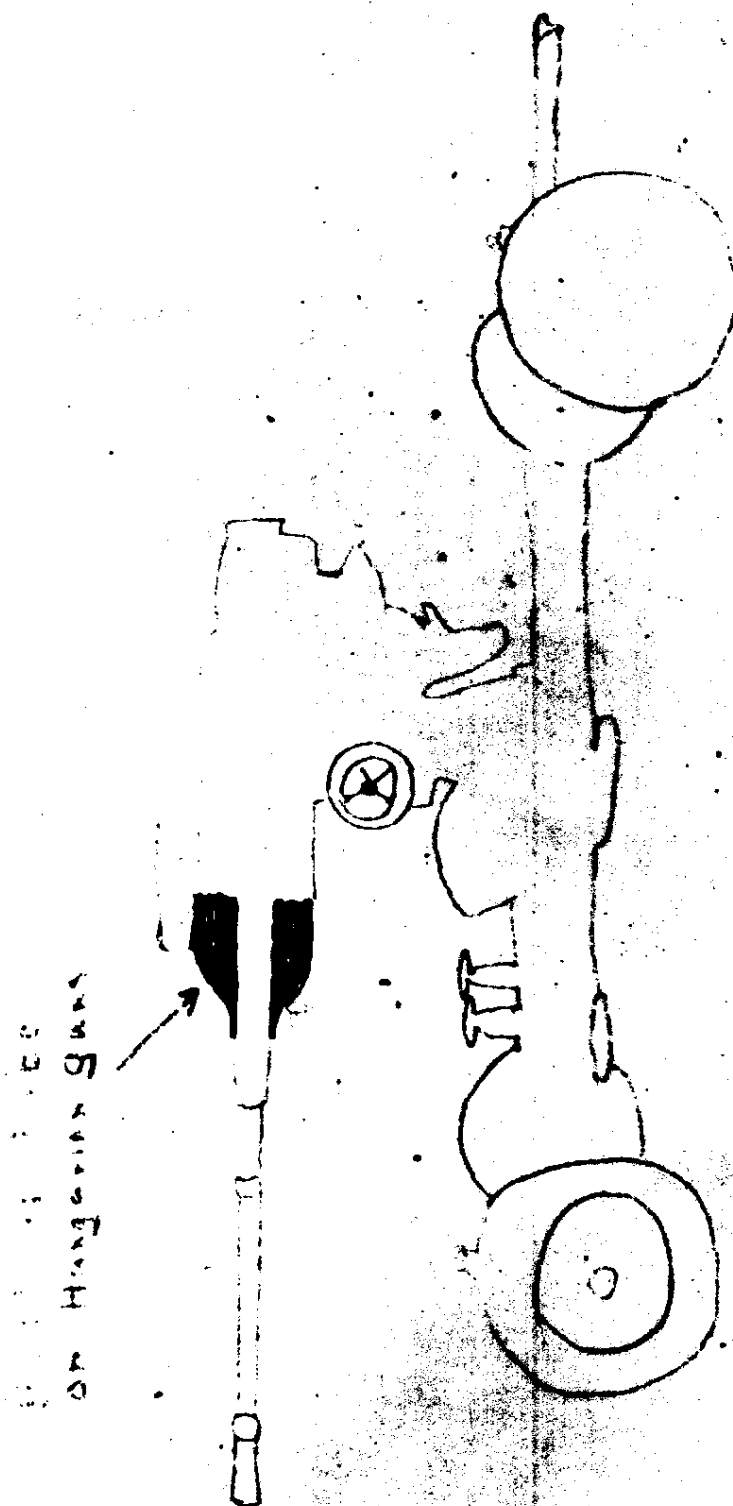
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85-mm Anti-Aircraft Gun

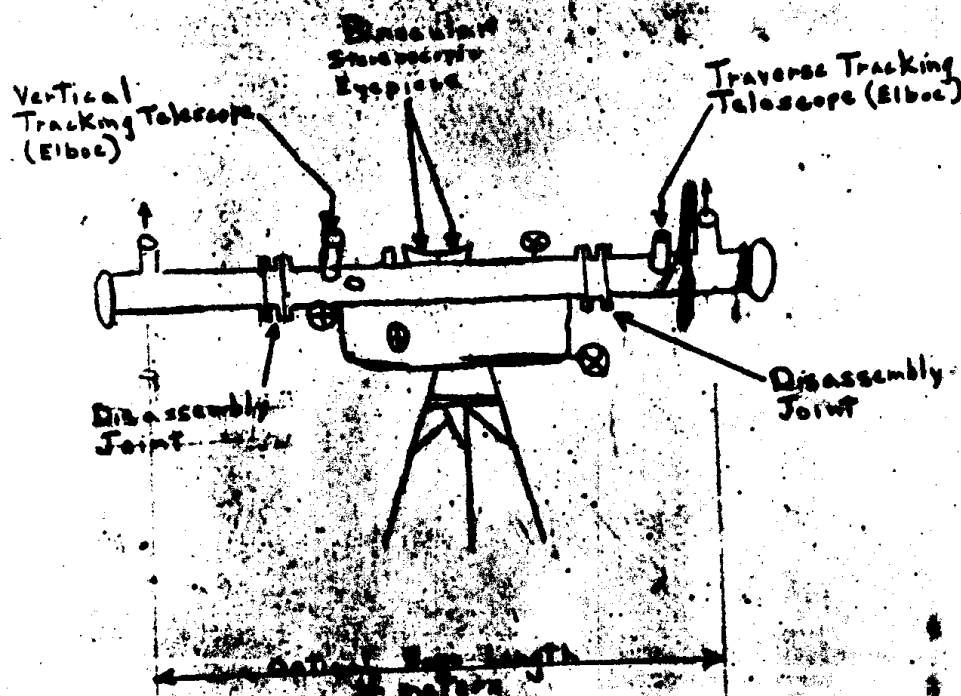
85-mm ANTI-AIRCRAFT GUN

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Sketch of The DJA-1

Stereoscopic Range Finder



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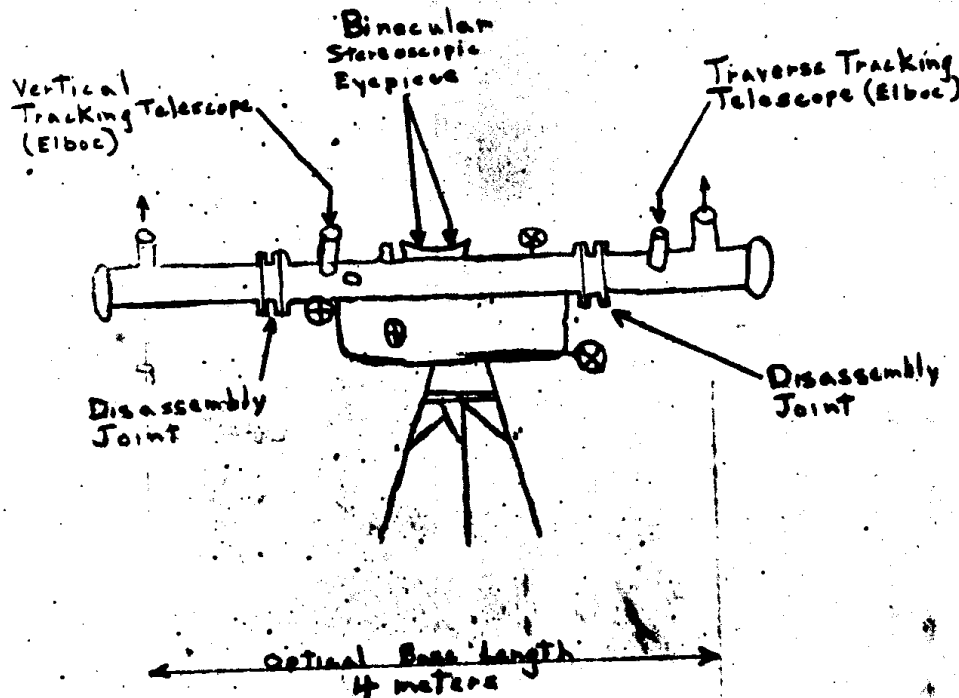
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Sketch of The DJA-1

Stereoscopic Range Finder

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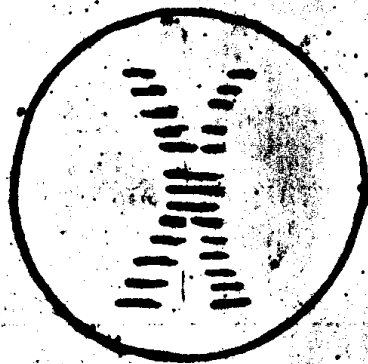


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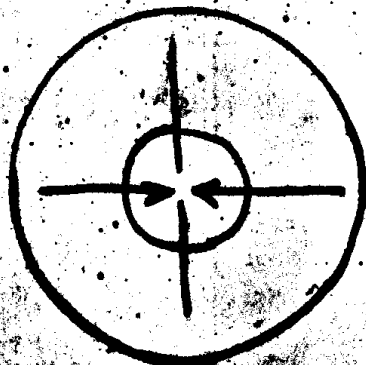
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Reticle Patterns in The
DJA-1 Stereoscopic Range Finder

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The Stereoscopic Eyepiece



The Tracking Telescopes

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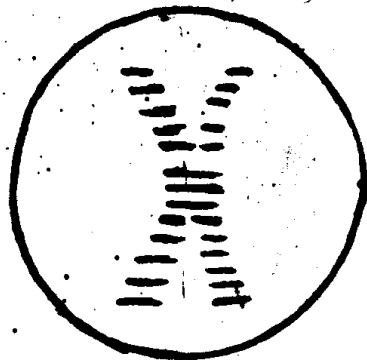

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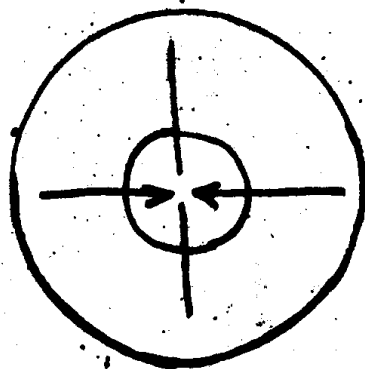
Reticle Patterns in, The

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DJA-1 Stereoscopic Range Finder



The Stereoscopic Eyepiece



The Tracking Telescopes

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Location of AAA Batteries at Munkacs

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Location of Regimental
Head Quarters of the
Munkacs AAA Regt

Location of an
85 mm AAA Battery

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Location of AAA Batteries at Miskolc

Hungary 1:50:000

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Location of Regimental
Head Quarters of the
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Location of an
85 mm AAA Battery

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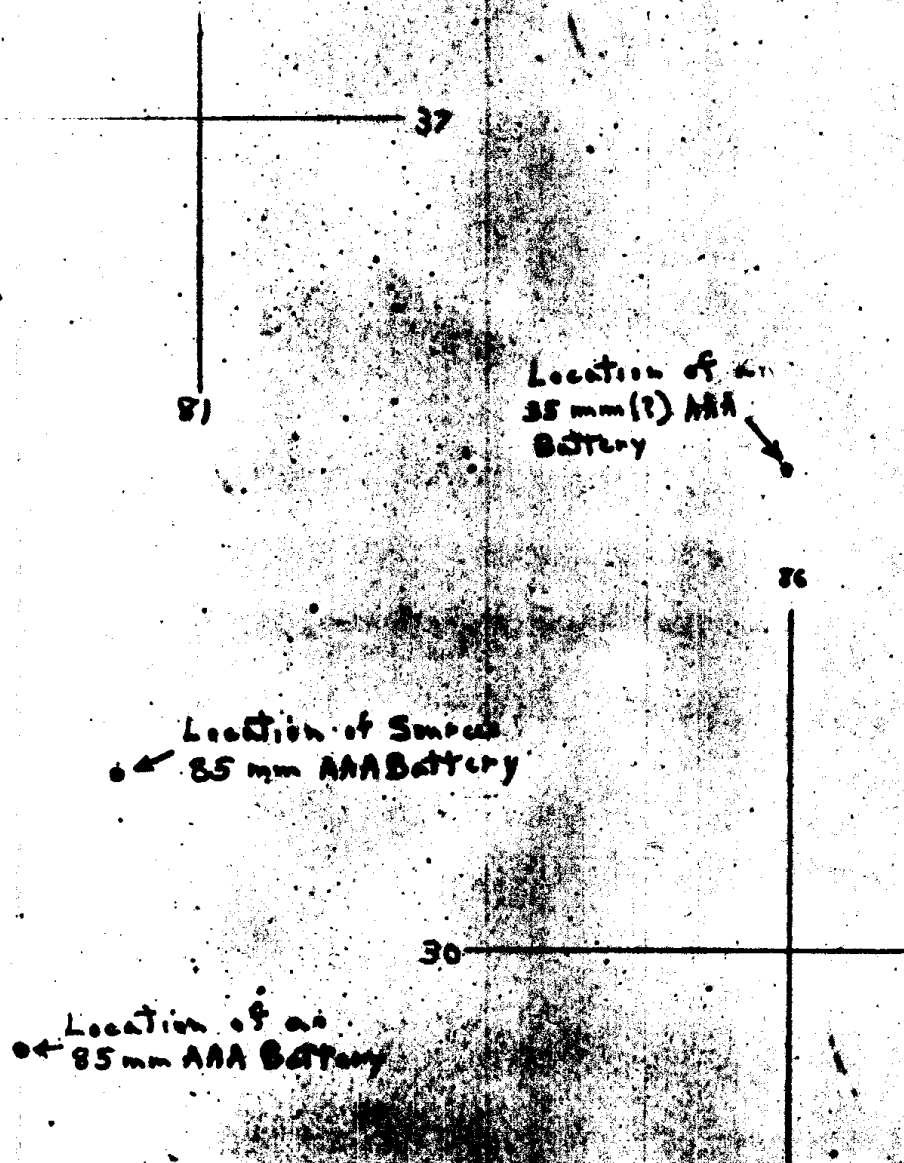
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Location of AAA Batteries at Miskolc

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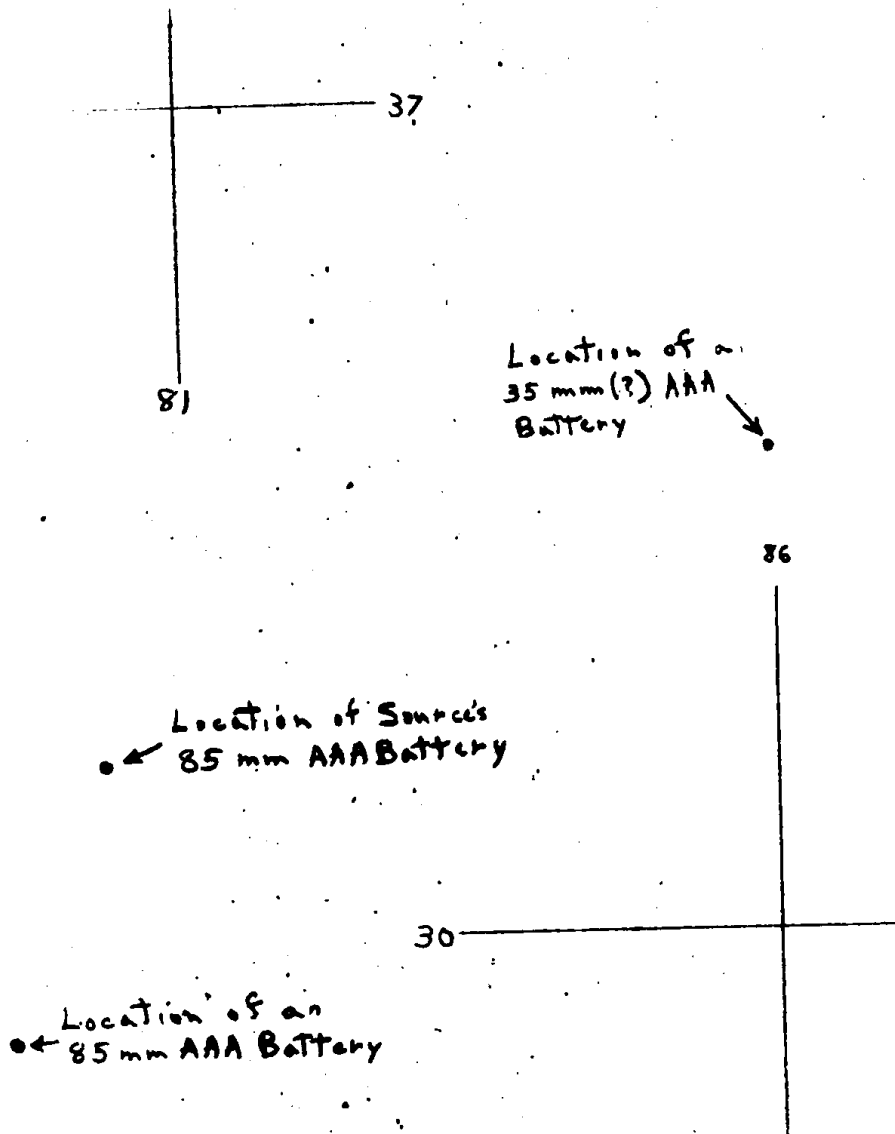
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